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SPECIAL DATA COLLECTION SYSTEM EVENT REPORT: NTS EVENT "MARSH", 6 SEPTEMBER 1975

K. J. Hill, et al

Teledyne Geotech

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December 1975

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20 ABSTRACT (Continue on reverse side II necessery and identify by block number)	
	1

SDCS Event Report No. 40

NTS Event "MARSH", 6 September 1975

This event report contains seismic data from the Special Data Collection System (SDCS), and other sources for the above event. Published epicenter information from seismic observations is:

"P" Arrival Origin Time Latitude Longitude m_b M_s NORSAR 17:11:33.1 17:00:08 38.3N 115.6W 4.1 N/A

Using RK-ON, CPSO and NORSAR, the epicenter location and magnitude become

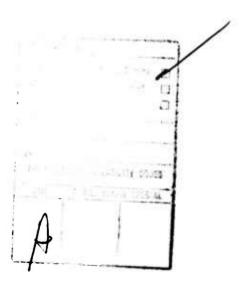
17:00:01.1 37.2N 116.2W 4.3 N/A

All SDCS stations were operational during this period.

Short-period signals associated with this event were recorded at CPSO, RK-ON and NORSAR. High level background noise prevented determination of signal arrivals at WH2YK, HN-ME and FN-WV. At HN-ME all SP channels had unknown operating gains. The SP radial channel at CPSO was extremely noisy. LASA short-period array data were not recoverable.

No long-period signals were recorded at any of the SDCS stations. Data from all LP channels at HN-ME appeared to be invalid. Long-period array data from LASA were not recoverable. ALPA and NORSAR data were not included due to program recovery problems.

Scaling factors on plots are millimicrons at 1 Hz (not corrected for instrument response) with the exception of LASA and NORSAR short-period plots. LASA SP scaling factors are millimicrons per inch. Scaling factors are not reported for NORSAR short-period.



STATION DESCRIPTION

SITE	LOCATION	SITE COORDINATES DEG MN SECS	ELEVATION METERS	INSTRUMENTATION SHORT-PERIOD LONG-	NTATION LONG-PERIOD
ALPA	Alaska	65 14 00.0 N 147 44 36.0 W	626	None	31300
CPSO	McMinnville, Tengessee	35 35 41.4 N)85 34 13.5 W	574	6480 V 7515 H	SL210 V SL220 H
FN-WV	Franklin, West Virginia	38 32 58.0 N 979 30 47.0 W	910	KS36000	KS36000
LASA	Billings, Montana	46 41 19.0 N 106 13 20.0 W	744	HS10	7505A V 8700C H
HN-ME	Houlton, Maine	46 09 43.0 N 067 59 09.0 W	213	18300	SL210 V SL220 H
NORSAR	Kjeller, Norway	60 49 25.4 N 010 49 56.5 E	379	HS10	7505A V 8700C H
RK-0N	Red Lake, Ontario	50 50 20.0 N 093 40 20.0 W	366	18300	SL210 V SL220 H
WH2YK	White Horse, Yukon	60 41 41.0 N 154 58 02.0 W	8 55	18300	SL210 V SL220 H

The orientation of the radial instruments at FN-WV is assumed to be 316° + 5° based on empirical data (event recordings). Rotation, where performed, is referenced to this azimuth and may be questionable. Note:

TRIX

STATION	YR		AR	RT	IME
RK-ON	75	249	17	4	46.2
CPO		249			22.2
NAO	75	249	17	11	33.1

YR 0-TIME LAT LONG
75 249 17 2 29.9 47.078N 80.547W
75 249 17 0 1.1 3".165N 116.219W
75 249 16 53 3.5 10.123N 172.283W

DATA SUMMARY

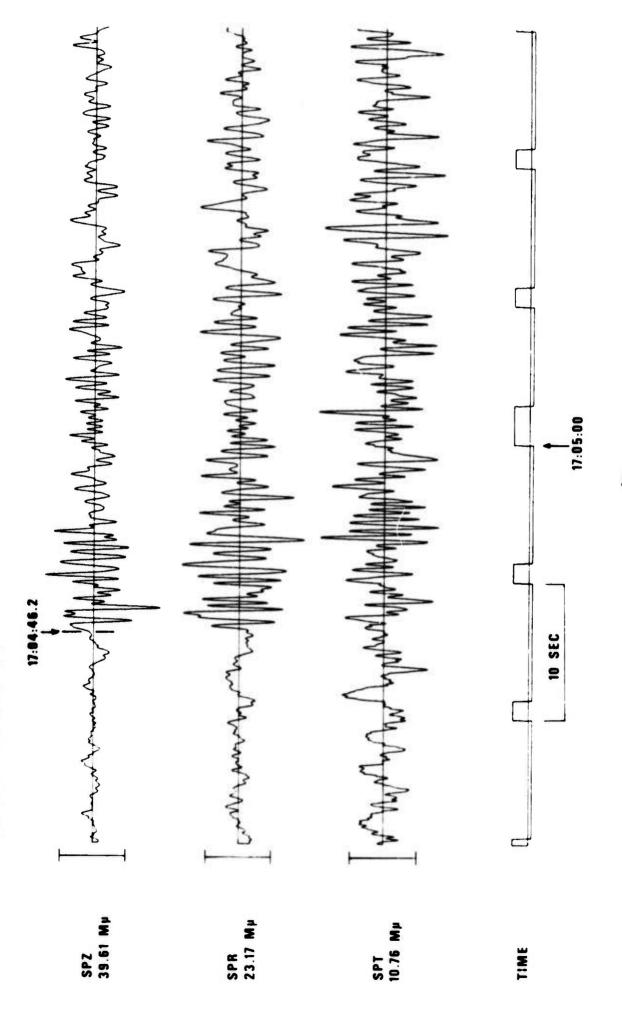
6 Sept 75

Sta.	Phase	Arrival Time	Inst.	Per	Λ/Τ	Magn:	itude*	Dist.**
RK-ON	EP	17:04:46.2	SPZ	0.6	33.6	4.3		21.1
CPSO	EP	17:05:22.2	SPZ	1.0	18 9	4.4		24.7
NAO	EP	17:11:33.1	AB	0.9	4.4	4.1		73.2

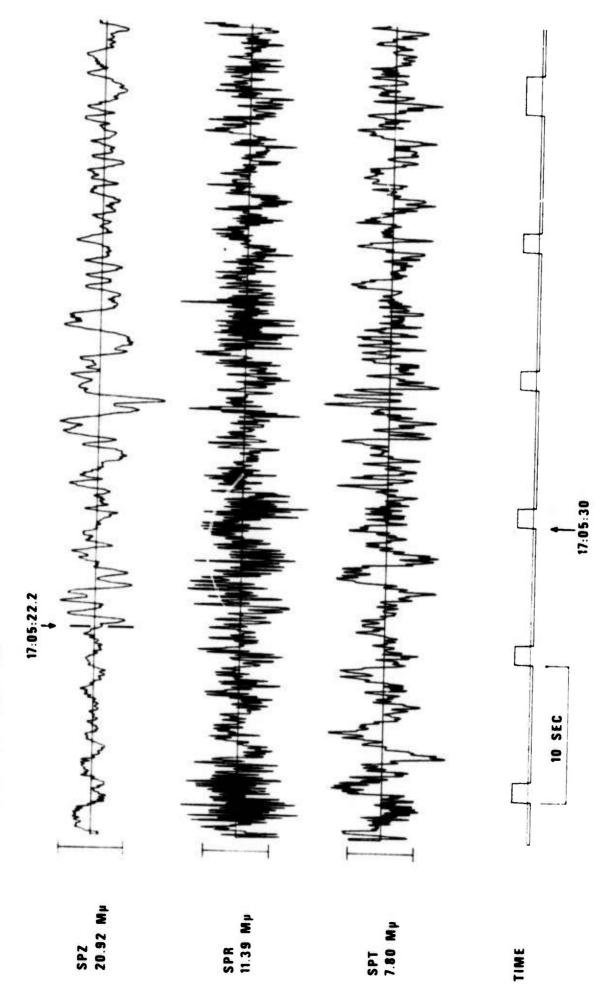
Average $m_b = 4.3$

- * For event source at surface
- ** Distances are calculated to TRIX epicenter

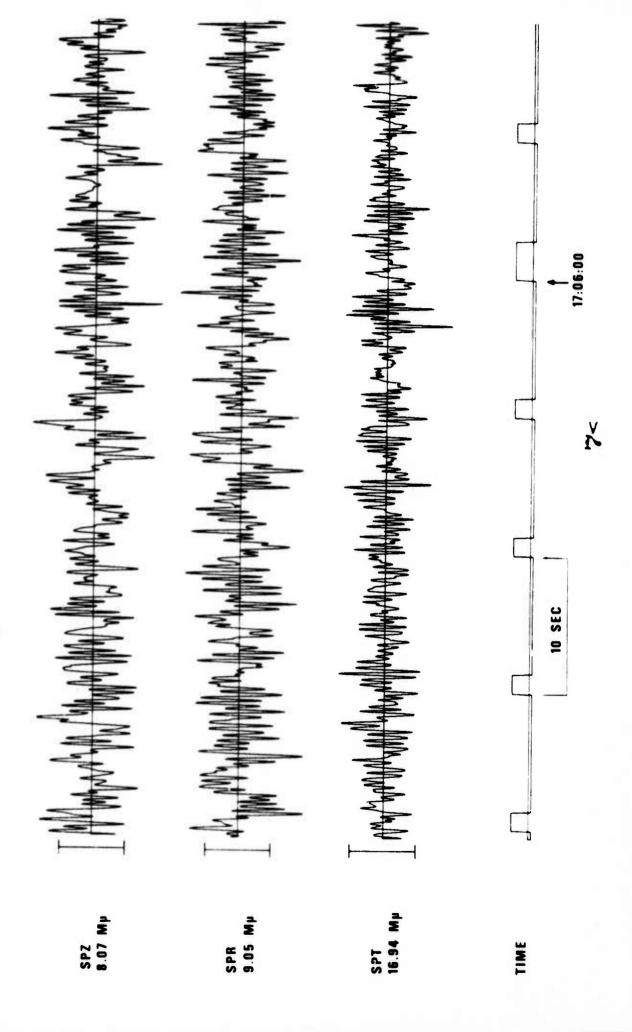
RK-ON 06 SEP 75



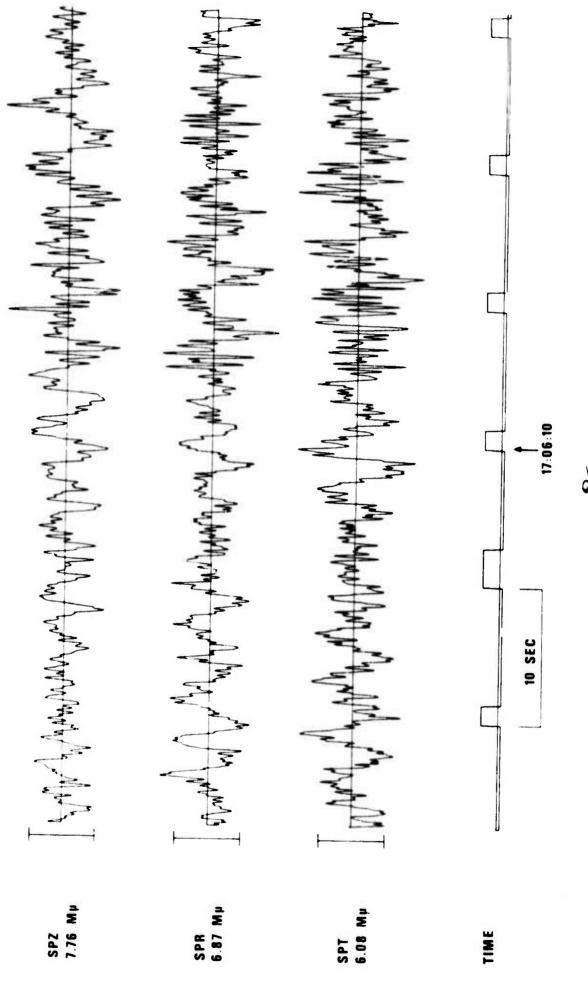
CPS0 06 SEP 75



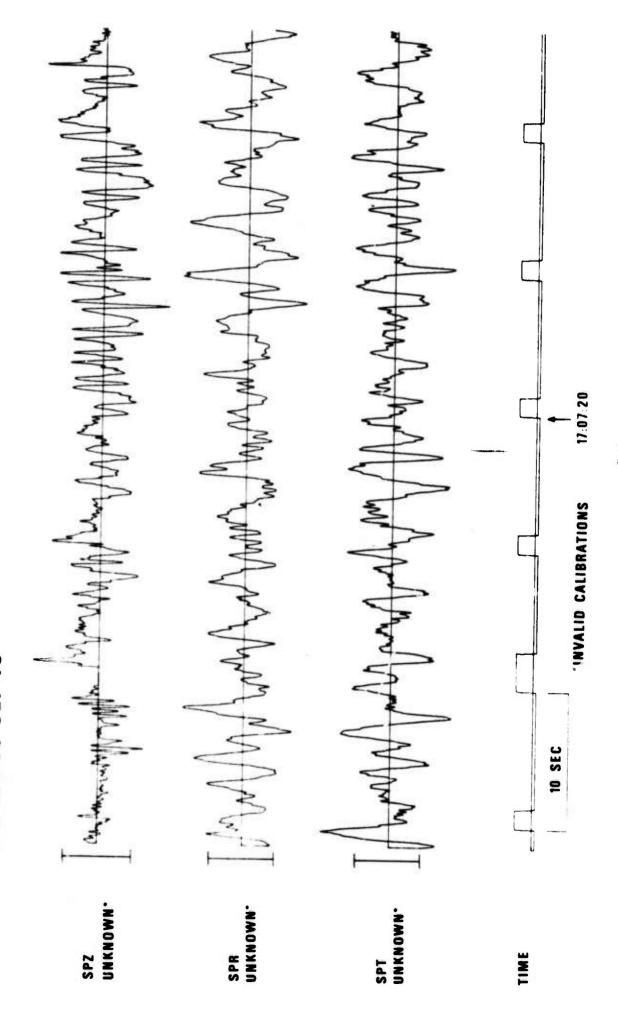
WH2YK 06 SEP 75



FN-WV 06 SEP 75



HN-ME 06 SEP 75

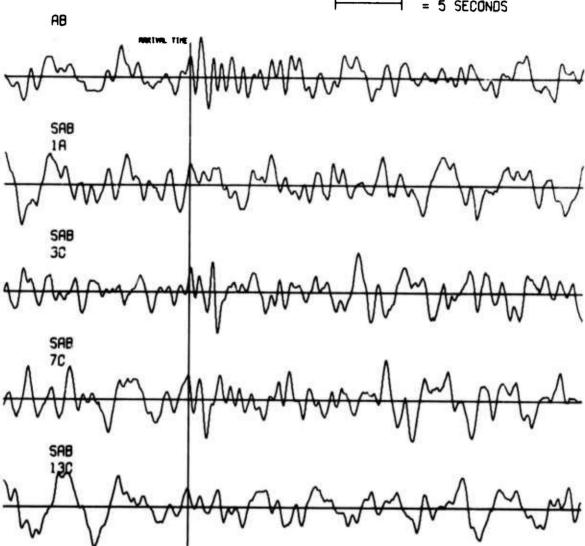


NORSAR EVENT FILE

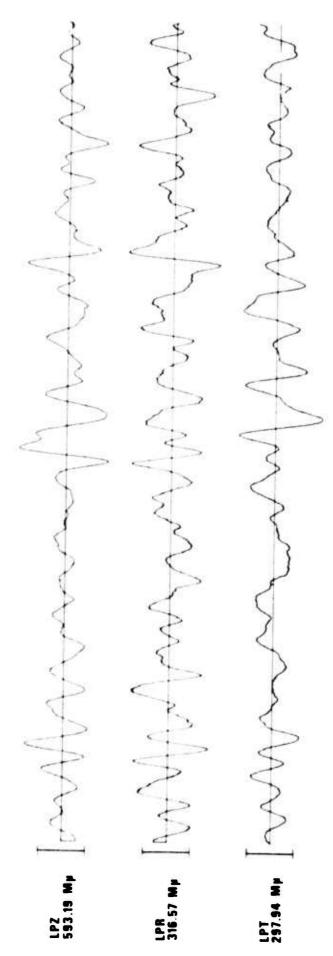
06 SEP 75

EPX NO. 86350 ARR. 17.11.33.4 38.3N 115.6W 4.1MB 33KM DIST = 72.0 AZI = 318.3 AMP = 2.0 PER = 0.9

H = 5 SECONDS







PELLERALO DE COLO DE LA COLO DE COLO DE COLO DE COLO DE CO 17:15:00 2 MIN TIME



